

**ARIZONA GAME AND FISH DEPARTMENT  
HABITAT PARTNERSHIP PROGRAM  
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

**PROJECT INFORMATION**

<b>Project Title:</b> 500	<b>Project No.</b> 07-415
<b>Region/GMU:</b> 40A	<b>HPC:</b> Southwest Arizona HPC
<b>Project Type:</b> Water project, redevelopment.	
<b>Project Description:</b> We will add a new collection point, walk-in trough, and 10,000-gallon storage. Augment the storage system, using 24-inch PVC pipe and use a natural watershed to assist with the collection of rainwater.	
<b>Wildlife Species to Benefit:</b> Mule deer, White-tailed deer, Bighorn sheep, dove, quail, migratory birds, bats, owls, and hawks.	
<b>Possible Funding Partners:</b> Arizona Desert Bighorn Sheep Society, Arizona Deer Association	
<b>Implementation Schedule:</b> <b>Beginning:</b> January 1, 2009 <b>Completed:</b> December 31, 2010	

**PROJECT FUNDING**

<b>SBG Funds Requested:</b> \$ 20,000
<b>Cost Share Funds:</b> \$5,631.30
<b>Total Project Costs:</b> \$25,631.30

**PARTICIPANT INFORMATION**

<b>Applicant:</b> John Hervert (please print) <b>Telephone:</b> 928-341-4041	<b>Address:</b> 9140 E. 28 <sup>th</sup> Street, Yuma, Az. 85365
<b>AGFD Contact and Phone No.</b> (If applicant is not AGFD personnel)	
<b>Coordinated with:</b> Joseph Currie	<b>Date:</b>
<b>Applicant's signature:</b>	<b>Date:</b>

**SEND COMPLETED APPLICATIONS TO:**  
 Game Branch  
 2221 W. Greenway Rd.

**Phoenix, AZ 85023**  
**mdisney@azgfd.gov**

**NEED STATEMENT/PROBLEM ANALYSIS:**

Water development 500 requires periodic water hauling to maintain a reliable source of water for wildlife. This water development requires water haul each summer. We will use new methods of construction that will substantially reduce the cost of maintaining this facility, while providing significant benefits to wildlife populations and hunter opportunity.

**PROJECT OBJECTIVES:**

Redevelop existing water development 500 using industry standard materials and volunteer labor. The project will incorporate the "Criteria For Success" outlined in "Water Development Team 2002". This project will reduce or eliminate the need to haul water. This project will reduce the level of maintenance required to provide a reliable source of water for wildlife and decrease the level of wildlife manager time spent checking water levels and hauling water. Mule deer, and bighorn will benefit from the enhanced reliability of this project. This catchment has gone dry on more than one occasion in the past.

**PROJECT STRATEGIES:**

Redevelop existing catchment 500 using industry standard materials and volunteer labor. This project will consist of burying PVC pipe to serve as a storage system (10,000-gallons), connecting it to an 30 inch deep walk-in drinker and collecting water from a large natural watershed. The level of evaporation will be reduced given the underground storage tank and water collection will be enhanced through the use of diversion dams on large watersheds.

**PROJECT LOCATION:** Each project is located in Unit 40A, on BMGR (Air Force) land. T9S, R1W, Sec. 11 NW1/4

**LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):** BMGR

**IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?**

**HABITAT DESCRIPTION:** Sonoran Desertscrub-Lower Colorado Subdivision, Average elevation = 2100

feet

**ITEMIZED USE OF FUNDS:**

**24 inch PVC pipe (24) = \$14,640**

**PVC caps (3 + 3), 24 inch = \$2196**

**30 inch trough, 4 inch and 6 inch PVC pipe from diversion dam = \$2,864**

**Misc. plumbing components (flex hose, PVC joints) = \$300**

**Total cost of materials = \$20,000**

**Equipment cost = \$1,400 (backhoe rental).**

**Volunteer labor (Yuma Valley Rod and Gun Club, 20 members, @ \$14.94 per hour for 16 hours, and 40.5 cents per mile, 10 vehicles, 210miles) = \$5,631.30 minimum.**

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:**

**ADBSS, Yuma Valley Rod and Gun Club, Arizona Deer Association.** The conservation organizations may provide the volunteer labor required to construct the project. Luke AFB initiated NEPA documentation. Richard Whittle, biologist, Luke AFB, will complete a CATX document for the project within six months. A second site visit is scheduled for September 12, 2007.

**PROJECT MONITORING PLAN:**

The project will be monitored following the Region IV maintenance protocol. This system will be check one or more times during the cool season (Nov. through March) and on a monthly basis thereafter. A remote camera system will be used to document use on the new system.

**PROJECT MAINTENANCE:**

This system will require minimal maintenance once completed. We expect water hauling not to be needed after the system fills with rainwater. The collection point above the dam will be cleared of sand as required, usually once or twice a year by the wildlife manager.

**PROJECT COMPLETION REPORT TO BE FILED BY: John Hervert**

**WATER DEVELOPMENT PROJECTS (see attached worksheet):**

**TREE SHEARING (AGRA-AXE, PUSH) PROJECTS (see attached worksheet):**

## **ARIZONA GAME AND FISH DEPARTMENT WATER DEVELOPMENT WORKSHEET**

**PROJECT NAME:**   500  

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”** Yes
- 2) **Please list the Development Branch personnel and date coordinated with for this project.** Joe Currie, 8-28-07.
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**  
  2-4   4-6   X  6-8   8-10   10-12   12-14   14-16   >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**  
  X  YES (please complete #5 below)       NO (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**  
Name of water source: 499  
Type of water source (catchment, spring, dirt tank, etc.): catchment  
Ownership of water source: AZGFD  
Distance in miles from project: 2.4 miles
- 6) **Is the target wildlife species a result of transplant efforts?**       YES   X  NO
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner. BMGR, access is open if a permit is obtained.**
- 8) **Please provide the following information about access to the proposed site:**  
Type of access (mark one):       2x4 vehicles   X  4x4 only       foot only\*\*  
\*\*If foot access only: Distance in miles:   Approx. hiking time:  
  
-- Does access to this site require crossing private or tribal lands?       YES   X  NO  
  
-- Please describe any restrictions to public access: Public must obtain a permit to enter.
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**  
24-inch PVC pipe will be used to provide storage of water in conjunction with a 30-inch walk-in trough. 6-inch PVC pipe will be used to convey water from the collection point to the storage tanks.
- 10) **Was a site visit completed?**   X   Yes       No. Richard Whittle (Biologist, Luke AFB) agreed to fast track this proposal and expects to complete the required NEPA documents prior to July 2008. A second site visit with Luke personnel is scheduled for September 12, 2007.